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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of B. DOLITZKY
Group Art Unit: 1624
Application No.: 09/939,406
Examiner: E. Bernhardt
Filed: August 24, 2001
Docket No.: 1662/49603
For: NOVEL SYNTHESIS OF PIPERAZINE RING

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:


Pursuant to 37 CFR § 1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The paragraphs marked below are applicable.

This Information Disclosure Statement is being filed with a Request for Continued Examination (RCE). No certification or fee is required.

Respectfully submitted,

KENYON & KENYON

Date: 6/9/03


W. David Wallace
Registration No. 42,210

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Process for preparing new piperazine derivatives further acid addition and quaternary salts thereof

Abstract

The invention relates to a process for preparing new piperazine derivatives of the general formula // further acid addition and quaternary salts thereof; in the formula

R1 stands for a C1-C5 alkyl group optionally substituted at the terminal of the chain with a phenyl, trimethoxy-phenyl, phenoxy, methoxy-cyclohexyl or a heptamethylene-imino group; allyl group; phenyl group optionally substituted with one or several halogen atom/s/, C1-C4 alkyl group/s/ or a C1-C4 alkoxy, trihalo-methyl or allyl group; or a C2-C5 alkoxy-carbonyl group,

R2 stands for hydrogen atom or a C1-C4 alkyl group and

R3 stands for a furyl, 9-xanthenyl or a C5-C6 cycloalkyl group substituted with a C1-C4 alkoxy group.

Compounds of the general formula // are prepared by reacting a compound of the general formula // - wherein R1 and R2 have the above meanings - is reacted with a carboxylic acid of the general formula // - wherein R3 has the meaning as above - or with a derivative capable of acylation thereof and the product obtained - when desired - is transformed into an acid addition or a quaternary salt.

The compounds of the general formula // possess coronary dilating and arrhythmia inhibiting effects.